

ABSTRACT

A stator for an electromagnetic machine includes a plurality of discrete and individually wound stator segments having end caps positioned on the segments. The end caps have legs for positioning the end cap on the segments with an interference fit. The end caps have angled surfaces to facilitate winding of wire on the segments. The end caps have male and female couplings that mate together to couple adjacent segments together. The end caps have fingers and slots for aligning the segments on substantially the same plane. The end caps have wire isolation features, including hooks, shelves and ledges, for separating the interconnect wires routed on the stator to electrically interconnect the segments. The segments include scalloped contours on their outer edges for draining oil, and the end caps have passages for draining oil.